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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/773,939		02/05/2004	George N. Cox III	4152-1-PUS-7	7950
22442	7590	08/17/2006		EXAMINER	
SHERIDA	N ROSS	PC	DANG, IAN D		
1560 BROA SUITE 1200			ART UNIT	PAPER NUMBER	
DENVER,		2	1647		
				DATE MAILED: 08/17/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/773,939	COX, GEORGE N.					
Office Action Summary	Examiner	Art Unit					
	lan Dang	1647					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	L. lely filed the mailing date of this communication. D. (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
· · · · · · · · · · · · · · · · · · ·	action is non-final.						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>24-46</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.	_						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) <u>24-46</u> are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	ef.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).					
11) ☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
application from the International Bureau	•	ed III triis National Stage					
* See the attached detailed Office action for a list		ed					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Do 5) Notice of Informal P	ate Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:						

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claim 24, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted preceding the first amino acid of the mature IL-11 protein.
- II. Claim 25, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted following the last amino acid of IL-11.
- III. Claims 26 and 27, drawn to a cysteine variant of interleukin-11 wherein the cysteine residue is inserted between at least one pair of two adjacent amino acids located in the region of IL-11 preceding helix A.
- IV. Claims 26 and 28, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between at least one pair of two adjacent amino acids located in the region of IL-11 following helix D.
- V. Claims 26 and 29, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between at least one pair of two adjacent amino acids located in the A-B loop of IL-11.
- VI. Claims 26 and 30, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between at least one pair of two adjacent amino acids located in the B-C loop of interleukin 11.
- VII. Claims 26 and 31, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between at least one pair of two adjacent amino acids located in the C-D loop of IL-11.
- VIII. Claims 26 and 32, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between at least one pair of two adjacent amino acids located in at least one region of IL-11 selected from the group consisting of the 1st or last 3 residues of helix A.
- IX. Claims 26 and 33, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between at least one pair of two adjacent amino acids located in at least one region of IL-11 selected from the group consisting of the 1st or last 3 residues of helix B.

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- X. Claims 26 and 34, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between at least one pair of two adjacent amino acids located in at least one region of IL-11 selected from the group consisting of the 1st or last 3 residues of helix C.
- XI. Claims 26 and 35, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between at least one pair of two adjacent amino acids located in at least one region of IL-11 selected from the group consisting of the 1st or last 3 residues of helix D.
- XII. Claims 26 and 36, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between the region preceding helix A and the region consisting of the 1st amino acid residues in helix A.
- XIII. Claims 26 and 37, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between the region consisting of the last 3 amino acids in helix A.
- XIV. Claims 26 and 38, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between the A-B loop and the region consisting of the 1st three amino acids in helix B.
- XV. Claims 26 and 39, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between the B-C loop and the region consisting of the last three amino acids in helix B.
- XVI. Claims 26 and 40, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between the B-C loop and the region consisting of the 1st three amino acids in helix C.
- XVII. Claims 26 and 41, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between the C-D loop and the region consisting of the last three amino acids in helix C.
- XVIII. Claims 26 and 42, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between the C-D loop and the region consisting of the 1st three amino acids in helix D.
- XIX. Claims 26 and 43, drawn to a cysteine variant of interleukin-11 wherein a cysteine residue is inserted between the region following the D loop and the region consisting of the last three amino acids in helix D.

For Groups I-XIX above, restriction to one of the following is also required under 35 USC 121. Therefore, election is required of one of Groups I-XIX, and election is required for one of

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inventions (A)-(C). The inventions of subgroups (A)-(C) represent the elected invention wherein the claimed protein varies with an inserted cysteine residue is modified with the following:

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(A) a cysteine-reactive moiety

(B) a polyethylene glycol

(C) with at least one polyethylene glycol

Therefore, election is required of one Groups I-XIX and an election is also required to one of subgroups (A)-(C) above.

The inventions are distinct, each from the other because the following reasons:

Inventions of groups I-XIX are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, each of the subinventions has the same separate utility as the unmodified IL-11. See MPEP § 806.05(d).

Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02) and have acquired a separate status in the art because of their recognized divergent subject matter and the necessity of non-coextensive non-patent literature searches, restriction for examination purposes as indicated is proper.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ian Dang whose telephone number is (571) 272-5014. The examiner can normally be reached on Monday-Friday from 9am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback can be reached on (571) 272-0961. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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lan Dang Patent Examiner Art Unit 1647 August 14, 2006

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SUPERVISORY PATENT EXAMINER
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